

POLYMORPHISMS IN THE IL4R α GENE (Accession No. AC004525)

TGTGAGCTAC	TGTGTCTGGC	CTGAATAATA	AAATTTAAAA	CAATTTTTC	
AAAATTCACC	ATGAGGTCTC	ACTATATTCC	CTAGGCTGGT	CTCAAACCCC	30100
TGGACTCCAA	GTGATCCACC	CCACCTTCCC	GAGTAGCTGG	GACTAGAGAT	
GCACACCATT	GCACCCAATA	GAGCAATACG	TTTCTGTTCT	TTGTAAATTA	30200
CCTGCTCTAA	GGTATTTTGT	TTATAGCAGC	CTATATGGAC	TAAGCTGACT	
TGTAACGTTA	CTTGAGACTT	TAAAGTGTTT	CGGTCACGTG	TGGAGGGCTC	30300
TGTCTGTGTT	AGCTCATTTA	ATCCCCACAA	CACCTCAATC	AGATGGGGCT	
ATTCTTAGTC	CCACTTTATA	GATAAGGAAA	CTGAGGCATG	GAAGCACAGC	30400
TTGCTCAAGG	TTCACATCTA	GTCAGTGACA	GAGCAGGTAT	TTAAACCTCA	
GGAAATAATC	AGAGAAACAT	GTGTAGAGGG	TTGTCCAAGG	AAGGCCACAT	30500
CCAGAAGCAT	CTCCCAGGAC	AGTTGTTGTG	TAGCTCACCC	TCTGGACTTT	
GTGGGTCTGG	GTGTTGTTTC	ATGATTATAG	AGAGAGCTCT	GTGAACGTGG	30600
AGGACCTGTT	GTCGGCAGAG	ACACAAATGG	CCAGGGCATG	GCTGGGCAGC	
CGCAGTGGCT	CAGGCCTGTA	ATCCCAGCAC	TTGAGAGAAG	CCAGAGGGGC	30700
AGATCATGAG	GTCAGAAAGT	CAAGACCAGC	CTGGCCAACA	TGGTGAAACC	
CCGTCTCTAC	TAAAAATACA	AAAATTAGCC	AGGTGTGGTG	GTGGGCACCT	30800
GTAATCCCAG	CTACTCGGGA	GGCTGAGGCA	GAAGAATCGC	TTGAACCCGG	
GAGGTGGAGG	TTGCAGTGAG	CTGAGATTGC	ACCACTGCAC	TCCAGCCTTG	30900
G					
GAGACAGAGC	GAGACTCTGT	CTCGGAAAAA	CAAACAAACA	AGCAAACAAA	
CAAACAAATA	AATGGCCAGG	GCAGGGGAGG	GTTGCATATT	GAATAAGATG	31000
AGCTCTGCTG	GAAGCACAGG	TCAGCACTAA	CCTGCTTCCT	CTCTCTCTGC	
AGGTGCCTTG	GCATCTCCCA	ATGGGGTGGC	TTTGCTCTGG	GCTCCTGTTC	31100
[exon 3: 31071..					
CCTGTGAGCT	GCCTGGTCCCT	GCTGCAGGTG	GCAAGCTCTG	GTAAGTCACC	
..31140]					
ACTTCTCAAT	CATTCAATTTG	TTGGCTATTA	ATGGCGTGCC	AGGGTCCTGC	31200
AGTATGTCAC	CTGGCCTTAT	GGAGATTACA	CTGCAGTGGG	AGGGGACAGC	
CAATGACAAG	TGGCCCTGAT	TATCAGTAAA	TTCTAAAGAT	TGTTAGAAAAG	31300
TGATGGGAGC	CGGGTGACAGT	GGCTCACACC	TGTAATCCCA	GCACTTCAGG	
AGGCCGAGGC	AGGAGGATCG	CTTGAGCCCA	GGAGTTCGAG	GTCAGCTTGG	31400
GCAACATAGG	GAGACCTTGT	CTCTACAAAT	AATAAAATAT	TAGCCAGGTG	
TGGCAGTGCA	CGCCTGTAGC	CCCAGCTACT	CAGGAGGCCG	AGGTGGGAGG	31500
ATCCCTTGAA	CTCAGGAGGT	CAAGGCTGCA	GTGAACTGTG	ATCGCGCCAC	
TCCACTCCAG	CCTGCGTGAG	AAAGTGAGAC	CCTGTCAAAA	AAAAAGAGAA	31600
GGTGATGGGG	AAAGAACACA	GAACAGCATA	AGAGGGGGTT	GGGAAGCTG	
GGTGGAGTGG	GGGGGATTGC	AGTTGAAAGT	AGGGAAGTCA	GGGAAGGCCT	31700
CATTGAGCTG	ACTTGGAGGA	AGCGGGAACC	GTGCAGATGT	CTGGGGAAGG	
CTCATTCTTG	GCAGAGAGGC	CCTGCACTGA	GCCTGGCGGG	AGGGTTGAGC	31800
ACAGGAGGGA	ATGTGGTGGA	GGAGAGTGAG	CAGCAGGAGG	GAGCAGTGAA	
GGTCAGCAAG	GTGACAGAGT	GGCTGAATCA	AAAAAGACCT	TGCAGTGTTC	31900
GAGCAGAGGA	TCCATATCAT	CCATTATGTT	CCAAAGGACT	CTTCAGGATG	
CCGTGTGGAG	AAAGGAAGAG	GGTGGAAGCC	AGGAGGTCTG	GAGGGAGGTC	32000
TGGAGTGGAG	GAGATGAGAG	GCTCCGGATC	CCTCTGGGAG	GTAAGTTTGA	
GGACAGATTG	GAATTGAGGT	GAAAGACAGA	GAAAGAGAAG	TGGCCAGGAT	32100
GACTCCAAGA	TTTCTGACCT	AACTACTTGG	GAAGGACGCG	GTTGTCAATTT	
CTGAAATGCA	GAAGGATGCC	AGAAGAGAAG	GTACTTTGGG	GAGGGGCGGG	32200
AATCAGGAGT	TAGTTTGGGA	CATGAGATAA	GCTTGGGAATA	TTTATTTGCT	
ATCTAAGACA	GCTCCTTAAC	ATGGTAAGCC	CTTATGCAAG	TTGTTGTGAG	32300
CTGAGATGGG	CGTGGCACTG	AGCATGGGAG	CATGGAGGCG	CCTGAGTGGT	
CTCATGCTCA	GGTGGTTTAG	CAAACCTCAGT	GTACATCCTG	CCAATTCCAG	32400

FIGURE 1A

TCCTGCCATG	GCCACTGACA	AGCTAGGAGG	GCGCTGAAAG	GAGAAGGACC	
CCGATGTCTC	CTCCAGCCCA	TCCATCTCCT	CTCTCCCATT	GGCCAAACCC	32500
AACCGGAAAC	TAAAGGCCAA	GGGTACCCGG	TGATGAAGAC	TGTGGTATCA	
GCCTCCTGAG	CACAGAGAGG	GCAGAAAGGG	GTGGAGACAA	AGAGGGGCGC	32600
AGATAGTGGG	CAAATGGGGA	AGTGGCACTT	CCCCTAGCTC	GAGGGCAGAG	
GCTTGGTGTG	ATGGAATGGC	ACTCCTTAAA	CTGCTACATA	TTTTCCCTTT	32700
AATTTGGCCA	AGAACAAGTT	GTCAAGTTTG	TGTGAGATAA	AGGTGCACTT	
GGTTCGTTCT	TGTCTAATGG	CCCCCGCACC	CATGGGTATT	TCTTCAGCTT	32800
CCACAGTCAT	CCCGACACTA	GCTGGGAAGC	TCCAGCAGCC	CTGGTCCTGG	
CCCCAGCTCT	GTGGGCGCTG	GCCCTCAACT	TTGCCTGCAC	TGTGCTTTTG	32900
TGCTATTCCC	CTTGGTCCTG	TTTGGGTGCA	AGTCCCCCTC	ACGCATTGAG	
T					
TTCTTGGGCC	GCTCAGGCTG	CTCCTGTGTC	TCCCCAGGGA	ACATGAAGGT	33000
	T [exon 4: 32988..				
CTTGCAAGGAG	CCCACCTGCG	TCTCCGACTA	CATGAGCATC	TCTACTTGCG	
AGTGGAAAGAT	GAATGGTCCC	ACCAATTGCA	GCACCGAGCT	CCGCCTGTTG	33100
TACCAGCTGG	TTTTTCTGCT	CTCCGAGTAA	GCCTGCGCTG	GAGCTGGAGG	
	..33126]	C			
TTTGGGGAGG	TTGTGCCCAA	AGGGTTTGCC	CCAAGAGTGA	GCTGGGTCCA	33200
GGTGGTGC GC	TGGAGTGCAG	GATGCTGAGT	ATGGTTTGCT	GCTGTTTATA	
TGGTGTTAGA	GGGGAGGTCC	CATCTCCAGG	GACATGTTAT	GTAAGATACA	33300
GTGGAGCGCA	TGGTGGGAGT	GTTGGTCCAC	GTGGCACATG	GATACGGCTG	
GAATACTGGA	CTAGACCAGC	AGTTCTCACA	CTTTTGGTTC	TCAGGACCCT	33400
TTTTTCACACT	TAAAAATGAG	TGAGGACCCA	AAGGGCTTTG	GTGTAGGTAA	
CACATCATT C	TATGTTTACC	TAATTAGAAC	TTGCAATGAA	GAAATGGTGT	33500
AATTTTTTAAA	AAATTA AAAAC	AATTA AAAAT	TTTTTTTCTT	ACTGAAATGG	
AGGTCTCACT	GTGTTGCCCA	GGCTGCTCTC	AAACTCCTGG	GCTCCAGTGA	33600
TCCTCCTGCC	TCCGCCTCCC	AAAGTGCTGG	GATTACAAGC	GTGAGCCGCT	
GTATCCGGCC	CAAAATGGAG	AAATTTTAA G	TCCCAACAAC	ATGCAAGCCC	33700
GCATTCAACA	AATCTTCAGA	TCAATTACAT	GATCACAGGT	CATGTAGCCT	
CTAGAAAATT	CCACTGTACG	CCAGTGAGAG	AGAGTGAAAA	GGCAAATAAC	33800
GTCCCTGTAT	TATGATGAAA	AGAGTTTTTAC	CTGGTGGGCC	CAGACCCACAC	
TTTGAGAACC	ACTGGACTAG	ACCCTTGATT	GAGGAGTACG	GTGTTGAGAG	33900
TGGAGTCCTC	TGTGATGGTG	GATGGACCAG	GACACATGGC	ATAGGAGTCA	
GGTGGTTCCC	TGGGCTACTC	CATGGTGCAC	AGGATGCTTC	GTTACACTGG	34000
TGCCCAGGAC	ATAATCACGT	ACACAAGACA	CACAGTTACG	GGGCAGACTG	
GGGATATACG	GCACACCAGC	ATGCAGCGTT	CACCAGTAAA	GGTGGTATTC	34100
CATGATTATT	CTAAGGTAGA	TGGGCTGTGC	TTTGTTTCCA	TTGGCTTAGT	
CCAGGGATTG	GCAAACTATG	GCCCGTGAGC	CAAAATCCGGC	CCACTGCTTG	34200
TTTTTTGTAAA	TAAAGTTTTTA	TTGGAACACA	CTGGCTGCTG	TAGTTGTAAC	
AGAAACTGCA	TGGCCCTCCT	TTATGTTTTT	TGTTTGTTTG	TTTGTTTGTT	34300
TGTTTTCTTT	GAGACAGAGT	TTCGCTCTTG	TTGCCCAGGC	TGGAGTGCAG	
TGGCACAATC	TCGGCTCACT	GCAACCTCTG	CCTCCCGGGT	TCAAGCGATT	34400
CTCCTGTCTC	AGCCTCCCGA	GTAGTTGGGA	TTAATGGTGC	CTGCCACCAC	
ACCCGGCTAA	TTTTTCGTAT	TTTTAGTAGA	GACCGGTTTT	CATCATGTTG	34500
GCCAAGCTGG	TCTCGAACTC	CTGAACCTCAG	GTGATCCACC	CGCCTCAGCG	
TCCCAAAGTG	CTGGGATTAC	AGGCATGAGC	CACTGAGCCC	GGCCTCCTCC	34600
TTTATCTTAA	TTGAAATAAT	TCAGAAATGG	AAAGTCAAAT	ACTGCATGTT	
CTCACTTATA	AGTAAGAGTT	AAATAATGTG	TACACATGGG	CATTATTCCA	34700
TGTACCATGG	AATAACAGAC	ATTGAAGACT	TGGGAGGGTG	GGAGAGGGGT	
GAAGGAAGAG	AAGTTACTTA	ATGGGCATAG	TGTACACCAT	TTGGGTGACG	34800
GACCCACCAG	AACCCAGAC	TTCACCACTA	GGCAGCATAT	CCAGTGAGAA	
CAGATCTGAG	GCTTGCCATC	AAAATTGCAC	TTGTAAGGCC	GGGCACTGTG	34900
GTGGCTCGCG	GCTGTAATCC	CAGCCCTTTG	GGAGGCCGAG	GTGGGCAGAT	

FIGURE 1B

CACTTGAGGT	CAGGAGTTCG	AGACCGGCCT	GGCCAACATG	GTGAAGCTCC	35000
ATCTCTACTA	AAAATACAAC	AATTAAGTGG	GTGTAGTGGC	GCACACCTGT	
AATCCCAGCT	ACTAGGGAGG	CTGAGGCGGG	AGAATTGCTT	GAGCCCAGGA	35100
GGTGGAGGTT	GCAGTGAGCC	GAGATCACAT	CACTGTACTC	TAGCCTGGGT	
GACAGTGAGA	CTTTGTCTCA	GGAAAAAAAA	ACAAAAACAA	AAAACAAAAA	35200
ACTCGTACCC	CCTAAATTTA	TACAAATAAC	CAAAAAAAAA	AAAAAAAAAAG	
GAAATTGTGT	GGCCTTTGAA	GTCCAAAATA	TTAACTATCT	GGCCTGTTAC	35300
AGAAAAAGTT	TGCAGACCCC	TGGCCTAGCC	CGTGAGATGT	GGGTTGGCTG	
TTAAGGTGGA	ACATTGGAAT	TATCTTACGA	TGGCCAAACT	GTGCGATGCA	35400
GAGCTTATGT	TGTTCTAAAT	TAATTAGTGC	CACCGGTTCT	TCCCTTTCAT	
GGGCTTTTCA	GAACAAGCTA	AGTCCCAGGA	CCAGGGCCGG	CAGCTAGGCA	35500
GGTGTGAGGA	GCATCCTTGG	TGCATGTGGT	AAGAGGCTGT	GGCCAGCAAG	
AGAGGCAACC	CTAGTCGGCT	GCCCCAGCAC	ACCCTGGCCG	CTCCCAAGCC	35600
CCCAGATCTG	TCCTCACATC	CGTGATCGGG	AAGCTGGAAG	AGTCTGATGC	
GGTTCCTGGA	GGCATGTCCC	GGACACAGCT	GTGGGGCCCA	GCCAGCCTAC	35700
AGGTGACCAG	CCTAACCCAG	CCCCTGTGTC	TGCAGAGCCC	ACACGTGTAT	
			G		
[exon 5: 35736..					
CCCTGAGAAC	AACGGAGGCG	CGGGGTGCGT	GTGCCACCTG	CTCATGGATG	35800
	T A				
ACGTGGTCAG	TGCGGATAAC	TATACACTGG	ACCTGTGGGC	TGGGCAGCAG	
	C				
CTGCTGTGGA	AGGGCTCCTT	CAAGCCCAGC	GAGCATGGTG	AGCAGGGCGG	35900
	..35887]				
AGTGCGGCAG	GGGTGGCTGG	GTGTGTTCCC	ACAGCTGCCT	GGGCTGAGGG	
T			T		
TGGGGTGGGC	AGGGGAGGAG	GTGGGGTCAT	AGCAACAGCA	GGAGGAAGCC	36000
A					
GCCTGTATTT	TCCCAAATCT	GATGGGATTC	CTGCCCCTGC	CTGGGCCTCA	
GTCTCTCCAC	CTTTGAAACG	GAGCTGGTCG	CAGTAGACCA	CCAAGCCCCC	36100
TTCAGCCCAG	CTGTTTCCAC	CCCTGAACTT	AAGTGCCCAG	GAAGGCGTAT	
TGAGATGAGG	TGTGCTTGCT	GGAAGGCATG	CCTGCTGCTG	ATTGAAAACC	36200
GAAGTGGGAA	CATTCTTTCC	ATTCTGTGTC	CACTGGTCAG	CTGCTGCGGC	
TTTGGATGGT	CTTGACCGTG	GAAGGCTGAC	CTTCTTCTGG	TACCCGGAGT	36300
CCCTGCAGGA	ATCCCCCTTG	AGCTTGCTGG	GCTGTGGTGA	CAGGAGTTTA	
AAACATGCGT	TGTATTCCAG	TGATGCATGA	TATGACATGC	ATCACAGGAA	36400
TAAAACCTG	AGGTCTCATG	GATATGATTG	CTTCAAAGGA	GACCAAGTTT	
TAAAACAGAT	GAATCAAAAT	AAAGAAAAAT	ACTCAGTAAA	TCATCATAAA	36500
GTACAGAGAT	GTGGCCAAAG	GTGTGAAGGA	TGCAGCTGTA	AAAGCTGAAG	
TTTGAGGCCG	GGTGTGGTGG	TTCATGCCTA	TAATCCCAGC	ACTTTGGGAG	36600
GCCGAGCCCA	GCGGATCACC	GGAGGTCAGG	AGTTCGAGAC	CAGCCTGGAC	
AACATGGTAA	AACCCCGTCT	CTACTAAAAA	TACAAAAAAT	TAGTCTGGCA	36700
TGGTGGCAGG	CGCCTGTAAT	CCCAGCTACT	TGGGAGGCTG	AGGTAGGAGA	
ATGGCTTGAA	CCCAGGAGAA	GGAGGTTGCA	GTGAGCTTAG	ATCATGCTAC	36800
TGCCCTCCAG	CCTGGGCGAC	AGAGTGAGAT	TACGTCTCAA	AAAAATAAAA	
ATAAATAAAA	ATAAAAAGAT	TTTTTTAAAG	GCTGAAGTTT	GGGTTACTTT	36900
GGCTCATACA	CTTTGCCTTC	ACTGTAGAAA	GGTGGTTAGT	AAAGACCAGG	
CGCGGTGGCT	CATGCCTGGA	ATCCCAGCAC	TTTGGGAGCC	CAGCGCAGGC	37000
AGATCACTTG	AGCCCTGGGC	TATTGAGGCT	GCAGTGAGCT	GGGATTGTGC	
CACTGCACTC	CAGCCTGGGC	AACAGAGTGG	GACCCTGTCT	CAAAAAAGAA	37100
GAAAAAAGG	GTAATTAATA	AACACTAAAG	TTCTATGTAG	AATTTTAGCA	
ACATTATTGT	TATTATAATC	TTCTTTGCTA	TGGCTCTGAA	TCTGTGTGGT	37200
GCTCCAGAAG	TATGCTATGG	AGGTTTTGTC	GACCAAAAAT	CTGGGTGGTG	
GCTGTGGTTT	GTAGGCCGGG	GCTGGGCTGG	GTGATGGGGG	AGTCACTGCA	37300

FIGURE 1C

FIGURE 1D

CCCTGCTTGT	CCAGGGAGGA	GTCACATACC	TGCCTCTAGG	GCTGCAGGTG	
GGCTCAGCTC	CATCCAAACC	AGATGAACTG	AAAATAAGGC	AGGAGTGGCT	39700
TCCCCAGGGG	AAACTGGGGA	AGAGGAAGCA	GGACTGTGCT	GGCTAAAATG	
CCAGCCAGGT	TTAAGACGTG	GCACCAGATG	CCAGTCATGG	GATTGGATTG	39800
GTCAGCATGC	CTGGGCTATG	GCTTAGGGGT	ATGTTGGTGC	TCAGGGATGC	
CACAGGCCTC	CAGATACCAG	GTCTGAGGCA	GAAGAATGAA	GTCCAGCTTC	39900
TCTTGTGGGT	GGAACAGTGG	CAACTGAGAT	ACCCCATCTC	TCCCTTCCCA	
AGAACAGAGC	TGAACATAAA	GAATTTAGTG	ATTGGCCAGA	GCTTGGCCAC	40000
ATGCTCCCTT	CTGATGAATG	ATAGGCCAGG	TGATGGGATT	GGCACAATTG	
GCTTAGACTA	ATGAGGGTTG	GCCCTGGAGT	TGCAGGCAGT	GGAGTTCTGT	40100
CCTAAGCAGT	GGGCACCTAA	ACCCGATGGC	ATAAAAGCTG	GGCGGGTGTC	
CACCTGCATC	TGCCACAGCA	CTATAGGCAC	CAACTGTGGC	TCATACTGAG	40200
TGGGATAAAT	TCCAGAAAAG	AACATTAGGA	ACTTACTATA	GAATTTTGGG	
GCTAGAGCTA	CTCATTTCATT	CCCCTAGATA	ATTTCTAGGC	AAGGTTCCAT	40300
AGTGGAGGGG	GAGTTTTTGGC	TTGGGCATTG	AAGGATGCAT	AGGAGTTTTT	
TAGATGGGGA	AAGAAGGGAA	CGGTAGACCA	GGCAGAGGGA	ACTGCATGAT	40400
AAAAGGTTTA	TGGGTGTGAA	AATTCATGGA	ATGTTTGAGG	ATTATGGGGT	
TGGGGGATGT	GGGAATATGT	GTAGCGATAA	AGCACCAAAC	AAAGCCAAAA	40500
GTTTAGTTAG	AGCCCTGAAT	GCCTGCCTCA	TAATGGTTTC	CATATTTTAT	
ATGCCTACTA	TGTGCCAGGC	ACATTGCTCA	GGGTCACACA	GCTGGAAATG	40600
GCAGGGCTGA	GTTTTTGTG	TTGTTGTTGT	TGTTGAGACA	GAGTCTCACT	
CTATCACCCA	GGCTGGAATG	CAGGGGCGTG	ATCATGGCTC	ACTGCATCCT	40700
TGACTTCCTG	GGATCAGGTG	ATTCTCCAC	CTCTGCCTCC	CAGGTAGCTG	
GGACTACAGG	CACAGGCCAC	CACGCCAGGC	TAATTTTTTG	TATTTTTTAGT	40800
AGCGACAGGG	TCTCGCCATG	TTGTCCGGGC	TGGTCTGGAT	CTCCTGGCTT	
CAAGTGATCC	CCCTGGCTCA	GCCTCCCAAG	GTGCTGGGAT	TACAGGCTTG	40900
AGCCACCSCA	TCCAGCCCAG	ATCTGAGATT	TGCACCCAGT	ATTTGAACTC	
CCAAGCCTGT	GCTCTTTTTT	CTCCCATGGA	CATTTCTCTC	AGAGATGGTC	41000
TCCCCAAACAC	CTGTCTTTCT	TGTTAAAAAA	CAGACAAACC	GCAAGTAGTT	
CTTTGGAAGC	TCAGATTTCT	CTTTTGTTTC	TTAGTAAAAC	ATTTCCCACT	41100
TCCCAGCTCC	CTTCCAGGGT	GTAAGATTTC	TTCGGTAACT	TACATCTAGC	
TGTTGCTTCT	TGTTTGCTCA	TGTTTAGAAA	GAAAGACAAA	AGAGAGTGAG	41200
AATTTTCTCT	CCCTTCCCCA	GTCTCCCCAC	AACTCACACC	CCACCCTCAG	
CTCCCTCTGT	AATAGGAAAA	TCTCTGAACT	CTCTGTAGTT	GCTCCAGCAA	41300
TCTTTTGGA	CTTTGCTTCT	TTCTTGTA	AAAACCTCCC	CTTGGCTCAC	
TTTGACCCAG	GTTTCCCCAA	ATGTGCTTCC	AACCACAAGC	AGAAATGGAG	41400
CTGCCAGTAA	CCAGGAAGAA	ACTGCCGGGG	GCTGAGGAAG	AGGAGAGGGA	
GGTGATAGC	CCTGGATCTC	GCAGGGAGAG	GGGTGACAGG	ATGAGAACTC	41500
AGGTTGCTCA	CTTGCCATCA	GGGTCAGTCA	TGAATATAGC	GTTTATGTAT	
CACTTTTTAA	AGCTTTTTTG	GAGGGTAAAA	GTAATAGTTA	CACAAAATAA	41600
AAATACAAAT	GGTACAAAAG	GACTTAGAAT	GGAAACATGT	TTCTCTCCCG	
ACTCCAGCCT	CCTGTTTTTC	TTCCAGAGA	GTGACCACTG	CTGTCTGTCT	41700
CTTGCCAGAA	GGGAAAGGGA	GGCAAGGTTA	GGGCAGGCAG	AGGGCATGTG	
CATCCTTTAG	AGAGAGCTTA	TGTCTATACA	AGCAAATGTG	TGTGTTTCACT	41800
CATCGCTGTC	TTAGTTTTCT	ATTGCTGCAT	AATAATGGTA	CTACCAGCTT	
CACAGCTTTA	AACAACACCC	ATTTATTATC	TCATAGTTTC	TGTGGTTGGG	41900
AGCTCTGGACA	TAGCTTAGCC	AGGTTCTCTG	CTTTAGAGTC	TCGTGAGGCT	
ATAATCAAGG	TGTGGGATGG	GGCTGCAGTT	TCATCTGAGG	CTCAATTGGG	42000
GAAGGGTCAC	TTCTAAGCTC	ATACAATATT	GGTGACATTC	AGTCCCTGGC	
AGGCTGTTGA	ACTGAGAGCC	TCAGTTTCGT	GCTGGCTGTT	GGTTGTAGTT	42100
AACCCTGAAT	TCCTTCCCAT	GTGCCCTTTG	CAAAGCCATC	AAGGCAGAGA	
GACTTGCTTA	GCAAGTAGGA	TATTACAGTC	TTCTGTAATA	TAATCACATC	42200
CATGAAATCC	TCTATATATC	CCATCACCTT	TACCATATTC	TGTGGGTTAG	
AAACAAGTAG	CAGGTCCTGC	CCCACTCGA	GAAGACCAGA	TGACACAAAG	42300

FIGURE 1E

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ATGTGATTCA	AAGTGGGGAT	CATCGGGGCC	ATCTTAGGTT	TGTCTGCAGT	
GATCACTGTG	CCATCTCTCT	CTCTCTCTTT	TTTTTTTTTT	TTTTTCCGAG	42400
ACGAAGTCGT	CACTCTGTCA	CCCAGGCTGG	AGTGCAGTGG	CATGATCTCA	
GCTTACCACA	ATCTCTGCCT	CCCAGGTTCA	AATGATTCTT	CTGCCTCAGC	42500
CTCCTGAGTA	GCTGGGATTA	CAGGTGCCCC	CCACCACACC	CAGCTAATTT	
TTGTATTTTT	AGTAGAGACA	GAGTTTCACC	ATGTTGGCCA	GGCTGGTCTT	42600
GAACCTCCTCA	CCTCAAGTGA	TCCACCCACT	TCGGCCTCCC	AAAGTGCTGG	
GATTACAGGC	ATGAGCCACC	ATGCCCAGCC	CCATCTCTCT	TTAAAAACA	42700
AACAAACAAA	CAAAAAACAT	AAAAAGAAGC	AGAGAACACA	TACACATCTG	
CATCTTCCCT	TGTTTACTTA	ACAATAGATC	TTGGAAGTCA	CTTCTCAGTA	42800
GAGGCTAGGT	TGGGCAGAGC	ATTGGATTCT	AGGCCAGTGA	GTTTGGACTT	
GACCATGGAG	ACACTAGGAA	GCCCATGAAG	GACAGAGAGA	GATGCCTCGA	42900
CCCTGCCAGT	CCTTTAGAAA	GATCACCCAG	TGCTTTTTGT	ATACCAAACC	
CTATTTGAAA	TACTTACGTA	TATTAACCCA	TTTCCTTATC	ACCACAACCC	43000
TGCGGGAAGG	GAGATAGGCA	CTTTTATTAT	CTTCATTTTG	CAGATGAGGA	
CATTGAGGTC	CAGAGAGGTT	ATGTCACCTA	CTTAAGGTCA	CACAGCCAGG	43100
AAGTGGTAGT	AGGGACTCTT	ACCCTTGTTT	TACAGATGAG	ATTGAATTAT	
CTCACGAAAA	CTCAGAAAGG	TTAAACAAC	TGCCTAAGTA	ACATACAGCT	43200
AATTAGTCGA	GGAGCCTGAC	GCATGTTGCT	CTAGCCTGGT	CACAGTTACA	
GAGGTGGCAA	GCAATGGCCT	GAACAGGACG	AACAACCAAA	TACCCAGGCT	43300
GGTGGCTCTT	AAACATGGTG	GGGTCAGCTA	ACGACAGCAA	CCAGGGTGGG	
CACTGGTGCC	CCTCGCCCCC	GGCTGGTGCC	CTAACATCTC	CCTTTTCTCT	43400
ACCAGTTCAG	AATCTATAAC	GTGACCTACC	TAGAACCCTC	CCTCCGCATC	

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GCAGCCAGCA	CCCTGAAGTC	TGGGATTTCC	TACAGGGCAC	GGGTGAGGGC	43500
CTGGGCTCAG	TGCTATAACA	CCACCTGGAG	TGAGTGGAGC	CCCAGCACCA	
AGTGGCACAA	CTGTGAGTAT	CAAGAGGCCT	AAGCAATGGT	AATCTCCACT	43600

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CTCCATTCTT	CCCCTGTGGC	CAGACACTTC	CCCTGGCTGA	GTCTCTGGGC	
TTTTATATCA	TAGGATGCCT	CTAATGGCAA	TCCTGCCATT	AGATACACCT	43700
GCTGTGGTGT	ATCTGCCAGG	TAGGCAGGCT	AGGCTGCAGT	AACACACAAG	

C

CCCACAATTT	CCATGGCTTA	ACACTATAGG	AATATATTTT	TTGCTCATGT	43800
AACAAGCTAA	CGTGAATGTT	GCTGGTTTGT	AGGTGGTTTC	CCTCCCTGTA	
GAAATCTGGG	GAGTGAGGTT	CTTTCCATCT	TGTGGTGCCA	TCATTCTCCA	43900
GGACAAAGAT	TCTTACCTAC	TTTTGTGTCC	TGGTTTCCTT	TGGCAGCCTG	
GTGAAGCCTA	TGGACCTCAT	TTTCAAATAT	TTTTAAATAC	ATAAAATCCC	44000
AGCCTGGGCA	ATATAGTGAA	ACCCCATCT	GTACAAAAAT	TAGCCAGGCA	
TGGTGGCATG	CACCTGTAGT	CCCAGGTACT	GGGAAGGCTG	AGGTGGGAGG	44100
ATCACTTGAG	CCCAGGAGTT	TGAGGCTGCA	GTGAGCCGTG	ATCGTACCAC	
TTTACTCCCA	CCTGGGTGAC	AGAGCAAGAG	CCCATCTCTA	AAAATAAATA	44200
AATACAATGA	AATAAAATAA	AATAAATAGA	ACTACAGAGG	AAACTAATTG	
TATTGAAATG	CAGTTATAAA	ACATTTAAAC	ACATTTTTTA	TCTAGAGATA	44300
TATGTGCTTC	TTTATTAAGA	TCTATAAATA	ATAAGTTCTA	GGGGTAGCTC	
GCATAAATAC	TGTAATTTCA	AAGTAGATAA	GCATAAATAA	TACTTTATGA	44400
TACTGAAATT	GTGATGTGAT	ATGAGAATAG	CTGTGAGTTT	TGTTTTGCTG	
GGGACAGGAT	CACTGATGCT	GTCATTACTG	GGGTCTCTTC	CCTCCATTCT	44500
TTTTTTAAAA	TTGTATTTTA	TTTTATTTTT	AAAATTTTAA	AATAAATAGA	
GACAGGGTAT	CACTATGTTG	CCCAGGCTGC	TTTTGACCTC	CTGGGCTCCA	44600
GTGATCTTCC	CATCTTGGCT	TCCCAAAGTG	CTGGGATTAC	AAGTGGGAGC	
CAGTGTTTCT	GGCCCTTCC	TCCATTCTTA	ATGGAAGGAG	ATGCTAGGTG	44700
TGAGAGGTTA	GGGAAAGTAA	AGATGTAATT	TCTTTCCCAT	CCAAGTTCTC	
AGACCCCTGA	ATTCTACCTG	CAGCCATGTT	GGTCCATCAA	CCCCAAGTGA	44800

FIGURE 1F

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AGAATCCCTG CTCTAGGGCC CCACCATTGT CTGTATCCAG CCAGCAGAAG
 AGGCGTGATT ATGGAGATCA CATCTGCTTC TTGAAAGCAG ACAGCCCGGA 44900
 AGTGGGCCGC ATCACTTCCT CTCAAATTCT ATTGGTGAAA ATGGTCACAT
 GACTACACAT AGCCACAAAG GAGGCTGGGA ACTTTCTCAC TTGGAACCTA 45000
 CATCCCAGAA ACAACTCTTT TCAGTGAGGT ATCCACAGG TCTTTCGCAG
 TAGAAATATT GATTATCTCA CATAAAATGA AGTCTTACAA ATGGACCTAC 45100
 TGGGTTTTGT ACAGCAGCCA AGTGATATCT CTTCCCTTCT GCTGTCTTCC
 CTTCTGCCGT CCTTCACATG GTGGCATTGT ATCCTTAGAC TTGCCACCCA 45200
 TGCCCTCAGG TTGGCCGTTG CACACTGTCT TACATAAAGC AGGAAGGAAA
 GGAAAGGCTG CTACGAGAGA GTGTACCTTG TGCATCTCTT TTTTAATCAG 45300
 GAAGCAAACA TCTTTCTAGA AGCTTCCCTA GCAAAATTCC CCTTACATCT
 CATTGGCCAA GACTGTTACA TGTTACATGG TTACTGTTAT TACTTGCTCA 45400
 TTGCAAGGAA GACTGGGAAC TCAAATGCCT GGAAAAAGGA ACAGGATAAT
 CGTGATTGGC TCAAGCCTTA GGGTGGGCAT GGCTCCCTGA CAAGGGAGAG 45500
 AGGAAAAAGC TGTTGAGTGA AGAAGACTGC TTCAGTTTCC CCATCTGTAT
 AATGGGAGGA GTAAGGGCTG TCGTGAAAAC TCAATGAAAG AAGATTCTTC 45600
 AACGTGGTAG GTGCAGTGGC AGCTGGCAGT ACCCTGACCC TGCCACCGCA
 CAGCCCTCTC AGCATTGCTC ATCCTGCACT GTGGATATCA GTTGAGCCAC 45700
 GTGTCTCCTG CCCTGGGCTG TGAGCTCCAT AGGCAGGGTC TCCATGGCTG
 TATCTCCAGA ACCCAGCACA GAACCAGGTG CTTGGGAAAG TTTTGAATTG 45800
 ATTCTCATCT GCCATTGGCA TGGGGAAGGG AACTAGCTTG TATGAAACAG
 ATAACAATGT ATGGGACCCT CATTCAATTAT TTCAGCAAAT ATTTGCTGAG 45900
 TTCCTCCTAC ATGGCTAGCC CTGTGCTAGA CACTGGGGAA TCGGCGATGA
 ACAAAGCAGA TAGAAATCCC CACTCTTGTTG GAGCTGACAT TCTGGAGGGA 46000
 GAGACAAAAA GCAAACATAT AAAGAAAGAA AGAAATCACA TGGATCTGGA
 TGACAGTGAG TGCTGGGAAG AAAATAAAAG CAGAGGAAGG GGATGGAGCG 46100
 ATGGGCAGGG GGCAACGGTA GGGAGGGTGT CGGGGAAAAC TTTTGGGAGA
 ATGTGACGAT GAAAGTGAAC AAGGAGAAGT CAACCGTGTT GAGATGATGG 46200
 CAGCTAATGA TGTGGACAGG CCACTCTGTT CTGAGTGCAT TATCTATTGA
 TTCATCATGT CATCCTCGCA ACAGCCCTGC ACGATCAATT CTGTCATTAA 46300
 CCCCATAGTA CAGATGAGGA TGCGGAGGCA CAGAGAAGAT AAGGGACTTG
 TCCTGTGTCA CACAGCAAGG AGCCATCCGG CTCCTAAGTT GGTGCATTG 46400
 ACTTCTGTCT TTCCGGAAAG AAAGAGCAGC AAGTTTAAGA TCTGGAGGTG
 GCACTGAGCT TTGGAGGAGC AGGGGGCAAT GAGGTGGCCG GTGTGACGAG 46500
 GACTCAATGT GCAAGAGGGA GAGTGGTGGG GAGATGAGGT GGAGGGGTGG
 TCGGCGGTCA GATCGTGGAG GGTCTCGGAC GAGGGTCTTG ACCCTGGGTC 46600
 TCCAGTCCTG GGAAGTGGAG CCCAGGCTGT ACCATGGCTG ACCTCAGCTC
 ATGGCTTCCC CTCCCCTTC CAGCCTACAG GGAGCCCTTC GAGCAGCACC 46700
 [exon 8: 46674..
 TCCTGCTGGG CGTCAGCGTT TCCTGCATTG TCATCCTGGC CGTCTGCCTG
 TTGTGCTATG TCAGCATCAC CAAGTGAGTC CTGGGCCAG TGCTGCCGAG 46800
 ..46773]
 CAGTCCCTCT GGAGTGCAGG GTGGCAGGGA CTTGCCCTCT TAGTCTGCCC
 CTTTGCAGTC CTCTCAGTCA ATAATACGTA TTTACTGAGC AGCTACTACA 46900
 CACCTTGAGA GTAGAGCTGA GAACATATCG ACAAGGACCC CACTTTTTTC
 TTTTTTCTT TTTTTTTTTT TTTTGAGACG GAGTCTCACT CTGTCACCCA 47000
 GGCTGGAGTA TAGTGGCACA ATCTTGCTTA ACAGTAACCT CCGCCTCCCG
 GGTTCAAGCA ATTCTTCTGC CTCAGCCTCC AGAGTAGCTG GGATTACAGG 47100
 CGCATGCCAC TATGCCCGGC TAATTTTTTG TATTTTTGGT AGAGATGGGG
 TTTACCATG TTGGTCAGGC TGGTCTCGAA CTCCTGACCT CATGATCTGC 47200
 CTGCCTCAGC CTCCCAAAGT GCTGGGATTA CAGGTGTGAG CCACTGCACC
 CAACCAGGAC TCCACATTTT TAAACCGGC ATCCTACTGG GGAGACTGAA 47300
 AATACATATC AATCACAAAC AGGTGGTTTT CCATAGTGAC CCACTCTCTG
 AATGCACTAG ACCAGGGTGG AGGCCAGAGA TCTTCTGGGG TGCTTTTTGC 47400

FIGURE 1G

AAGGGGGACC	AGGATAAGGC	TCTCCAAGGA	GGGAAAATTT	GAGGGGGGCC	
CTGACTGGGG	AGAATGAGCT	GGCCAGGGAT	AAGCAAGATG	GAGTCATCCC	47500
ACATCCCCCT	ACAACACTGG	GTGCCTGGGC	AACTGGGGGC	ATTTGGGGGC	
ATGTGGTAGG	AGCCAGAGGA	ATTTGCGACG	ATTGCCCTGA	TGGAGTCAGG	47600
AGACCTGGGT	TTGAATCCTG	GCCTTGGAGC	TTGGTAGCTG	GCGGCCGACA	
AGTTGCTGAA	ACCCCTGAGC	CTGGGGTTCC	TGCTTTGCAG	AGTGACAGTG	47700
ATGGTGAGAA	CATATTTTCAT	CAGCCAGAAG	AGGCCAAATC	ACAGTAAAGG	
CTGAGGGAGG	AGATGAGTGG	CGAGTGGCTG	GGAGGTGGTG	GAAGGAGCCT	47800
CGTTTCCAGA	GAGCTCTTGC	CAGCCCTTGG	AATCATGGTG	TCTCAGAGCC	
TCAGTCCTCC	CATCTCTGAA	ATGGGACTAG	CAAGCTCAAC	CTCACTAAGT	47900
CAGGATTAGA	GGTGGCTAAG	GATTATTAAC	ATGATTGATG	AAAGTGCCCA	
CTCTTGGCCC	AGCACACACT	AGGTAGGCAG	GGAATGCAAA	TTCCCCTCCA	48000
TATCTTGTC	CTGATGCCCT	CGAGCAACCT	TGGACTGATC	GCCTTGCTCT	
GAGCCTCAGT	TTCCCCATCA	CCTGTACCTC	TTCCCACTCC	CCATCACTAT	48100
ATCCAGCAT	GCCAGCCTCT	TTGCTGTTCT	TTGTCTTTGG	TTTCTTGTTT	
TGTTCTGTTT	TTTAGACAGG	GTCTCACTCT	GTTAGCCAGG	CTGAAGTGCA	48200
GTGGCGCGGT	TACGGCTCAC	TGCAGCCTCC	AATTCTGGG	CTAAAGAGAT	
CCTCCCATTT	CAACTTCCAG	AGCAGCTGGG	ACAACAGGCG	CTTGCCACCA	48300
CACCTGGCTA	ATTTTCTTAT	TTTAATTTAA	TTTTATTTTA	TTTTTTGGGA	
CAGAGTGGAG	TCTCAAAAAC	CAAGCTAGAG	TGCAGTGGTG	CGATCTCGAC	48400
TCAGTGCAAT	CTCTGCCTCC	CGGGTTCAAG	CGATTCTCCT	GCCTTAGCCT	
CCCGACTAGC	TGGGATTACA	GGCGTGTGCC	ACGACACCCA	GCTAATTTTT	48500
GTATTTTTAG	TAGAGATGGG	GTTTCACCAT	GTTGGCCAGG	ATGGTCTTGA	
ACTCCTGACC	TCAAGTGATC	CACCCACCTC	GTTCTCCCAA	GGTGCTGGGT	48600
ACAGGCATGA	GCCACTGTGC	CTGGCCAATT	TTCTTACATT	TTGTAGAGAC	
TGGCTGTCAC	TTATGTAGCC	CAGGCTGATC	TTGAACCTCT	ACCCCTTTAT	48700
CTTTATTTCAT	GGCACTTATT	ACCATGAATG	AATGACCTCA	TATAAGCATT	
TCTTTCGTTT	TTTTTTTTTT	TTCTTTGAGA	TGGAGTCTCA	TGTTGTCCCC	48800
CAGGCTGGAG	TGCAGTGGCG	CGATCTCAGC	TCAGTGCAAC	CTCCGCCTTC	
CGGGTTCAAG	CGATTCTCCT	GCCTCAGCCT	CCTGAGTAGC	TGGGATTGCA	48900
GGCGCCTGCC	ACCATGCCTG	GCTAAGTTTT	GCATTTTTAG	TAGAGACGGT	
GTTTCACCAT	ATTGGCCAGG	CTGGTCTCGA	ACTTCTGACC	TCAGGTGATA	49000
CACCTGCCTT	GGCCTCCCAA	AGTGCTGGGA	TTACAGGCGT	GAGCCGCCAT	
GCCTGGCCTC	ATATAAGCAT	TTCTGTCTCC	ATTTATCATC	CATCTTTCCC	49100
TCTTGAAGGT	CAGTTTCACC	AAGGCAGGCA	TCTTTGTCTC	GTTCACTGTT	
GTAGCCTCAG	GGCCAGGCAC	AGTGAGTCAA	ACATAGAAGG	TGCTCAATAA	49200
ATATGTGTTT	ATTTATTGAA	ACCATGGGCA	GAGGCTAATT	CAGAAGCGGT	
CTGAGGACCT	TACCTCCAG	TGATGATGCA	CCATGGCCCC	AGGCAGGCCA	49300
GGAAGAGAGA	AGGGTTGTGT	TTCTCCGTAG	GTCCCCCAGC	TTCCCAGGCC	
ATCCCAGGCC	ATTCCCTGGT	CATTTGCCCT	CAGCTGCTCT	GAAAAAGGGA	49400
TTGTTGAGGG	GAACCTAGAA	TCCTCTCTCT	GCAGTTTGAG	TCTTTCCTAA	
TCCCCTGGGG	TCTCATTCCC	ACTGAGGACA	TAGGTGGCCT	CCTCAGGAAC	49500
TCTGTGCTGG	GTAACAGAAT	GCGGGAGTGT	GAACCTGGCT	CTGCCACCTA	
CCAGCTGTCA	CTCCACCTCC	TTGGGCCTCA	CTCTCCTCAT	CTGTAGAATA	49600
GGGTTAGCAA	TAGAATCCAT	GTCACCAGGT	TAGAATGATG	AGTCAGTGGT	
TTGACCTCCA	GAAACTAATC	AGCCTGATCT	CTGATGCCAA	ATAAGTATTG	49700
GTGATAACGA	CCACTTTTAT	GGGAGGAGCG	TTCACCTGTC	AATAATTCAG	
AGATCAACAC	CTTTTCCTTT	TGTTTTTCAG	GATTAAGAAA	GAATGGTGGG	49800
[exon 9: 49781..					
ATCAGATTCC	CAACCCAGCC	CGCAGCCGCC	TCGTGGCTAT	AATAATCCAG	
GATGCTCAGG	TAGGAGTAGG	CGTGGATGAG	GACATGTGGG	ACTGTGTACA	49900
..49859]					
TGAAGAAGTG	TGGTTCAGAA	CACCTGGGCT	GTTAAGGACC	TTCAGTGGCT	
TCTGGAATGG	CAAATAGACA	GTCAGGAGGG	TTGCAGGGGA	GACAGAGGCA	50000

FIGURE 1H

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GAAGCCGAAT	GAGGTCATTA	GCAGACCAGA	GGCTTTCCCG	CCCTTCCCCT	
TGGCAATCCC	AGCCTGGGGT	GGGCTTCTCT	GGGGTTGGTT	TCCTGTTTTT	50100
TTCCCTCCCC	TTGGGAGAAT	GACCCTTGGG	TCATCATCAC	TGTGTCATTC	
CCTGGGGAGG	TGCCAGTACC	AGGGCTAGAG	GCCAGAAGGA	GTGGAGGAAG	50200
GAGAGGGTGA	CAGGCTTTCT	GTGTCTTCTT	CTTAAGCATA	GGAAACTGCC	
CCCGAAGCAC	TAGCAAATCC	CTTCCGGGTT	CTCATTGGCC	TGAAATGTAT	50300
CCCACCCCTA	AGCCAGGGGT	GGAGTCAGCT	TCCCCAAGGC	GATGGTCCTG	
TGGGTGAGTG	GGTGGGGTTT	GCCTGAGCAA	GATGAGAGTT	CTCTAGGTAG	50400
GAGAAAGGGG	GATTATAGGT	CCTGTCTAGA	AGAGAAGGTC	TGAGGGTCCT	
TGCTTTTCCA	GGGACTCTGG	AATCTAGTGT	TGGCTTTGAA	TCCTGACTCT	50500
GCCACTCACT	GGCAGTGTGG	ACTTGAGCAA	GTTGCTTAAT	TCTCTGAGCC	
TCAGTTTCCT	CTTGTGGGTT	ATAACAGTGT	TTACCTGGTA	GGACAGATAT	50600
TGGAATTTAT	TGAGACAATA	CATATAAAGT	GCATATTCCA	GCCTCTTGCA	
AATACCAAGT	GCCATTTATG	TATCAGTTAG	TGTTTGCTGT	GTAACAAATG	50700
ACCCCGAAAT	GTAGAGGGTT	ACAACAACCT	TATTTAGCTT	ATGCTTCTGC	
AGGCTGGCAT	TTGGGGCTGG	GCTCAGCAGT	GAGGGTGGCG	GGGGAGGCTG	50800
GGCTGGGCTG	GGCTGGGCAG	ATCTGAATTG	AGCTGACCCG	TCCCCGTAGC	
CTCCCTCCGT	GTCTGACAGT	TGGCTTTTTT	TTTTTTTTTC	TTTTTCTGAG	50900
ACGGAGTTTT	GCTCTTATTG	CCCAGGAGTG	CAATGGCATG	ATCTTGGCTC	
ACTGCAACCT	CTGCCTCCTG	GGTTCAAGCA	ATTTTCTTGC	CTCAGCCTCC	51000
CAAGTAGCTG	GGATTACAGG	CATGTGCCAC	CACGCCAGGC	TAATTTTGTA	
TTTTTAATAG	AGATGGGGTT	TCTTCATGTT	GGTCAGGCTG	GTCTGGAAC	51100
CCTAATATCA	GATGATCCAC	CCACCTCAGC	CTCCCAAAGT	GCTGGGATTA	
CAGGCGTGAG	CCACTGCACC	CAGCCTAGTT	GGCTGACTTT	TACCTGGGAC	51200
AGTGCAGGTG	CCTGAGCCAT	GTGCCTCTCA	CTCTCCAGCA	GGCCGGCCCCA	
GGCTTGTTTTA	CAGAGTGGCT	CAGTTTTTCAA	GGGTGGGAAG	TCCCAAGGCT	51300
TCTTGAGGCC	TAGGCGCAGC	ACTGGCATGA	TATCACTTCC	ATCACATTCT	
ATGGGCCCCAA	GCAAGTCCCA	GGGCCAGTGT	AGATTCAAGG	GATGGGAGGA	51400
GATTCAAGAGC	ACTCCTCTGT	GGCCACTTTT	GCCATCGACC	ACAGTCCCTG	
TAAATATTAG	GACAATGTAA	TTAATTCCCA	GGAATCTGAG	GCTCAGAAAG	51500
CGTAAGTGAC	CTGTTGGACT	TCTGATCTGT	GTGATGTCGA	GGCTTGTAAC	
CCTTCCTGAG	CATTGCCGTA	CTCCAGGCCG	GGCTGCAAGG	CCACTCTGCT	51600
CTTTCATTGG	CTGTCTCTGT	ATTTTAGGGG	TCACAGTGGG	AGAAGCGGTC	
[exon 10: 51628..					
CCGAGGCCAG	GAACCAGCCA	AGTGCCCCGTA	TGTATCTGAA	CTTAGGTCAC	51700
..51677]					
AGCCTGCATG	CATTGGGAAG	GTGATAGAAT	TGGAGAGGCA	AGCCCCTAGC	
TCCATGTCTG	CCTTCTCTTC	CCTGCATTCT	GTAATTGCC	TGTGACATTA	51800
GCCTTCAAGG	GACGGCAGGA	GGAGGGGTGT	TCTGGAAACG	TGGACTGCTG	
GCCAAGCCCC	CTGAGTTTCA	CTGGTGTGTC	AGGTACATGG	TGATACCCCT	51900
TGGGAGTGCT	GTTATAGTTA	ACAACCAGAG	CAGCCGTGCC	TGTTGTTAAA	
ATCTTGACCT	AATTGTATAC	TTGTCGGCAA	ATAGCCACTA	TCCTGAACAC	52000
TCCCCTCCTT	TTTTTTAATA	TACAGGATCT	CACTCTGTGG	CCCAGGCTGG	
TGTGCAGTGG	TGCGATCATA	GCTCACTGCA	CCTTCAAAC	CCTGAGCTCA	52100
AGTGATCCTC	CCATCTTAGC	CTCCCAGATA	GCTGATACTA	CAGATGTGCA	
TTACCAGGCC	TGGCTATTTT	AAAAGGTTTT	TGCCTGTAAT	TCCAGCTACT	52200
CAGGAGGCTG	AGGCATGAGA	ATCACTTGAA	CCGGGGAGGC	AGAGGTTGCA	
GTGAGCGCAG	ATTGTGCCAC	TGCACTCCAG	CCTGGGCGAC	AGAGTGAGAC	52300
TCTTGCTCTCA	AAAAAAATAA	TACCAAAAAA	AGTTTTTGTA	AAGACAAGCT	
CTCGCTGTGT	TGCCCCGCCA	CTGTGGCCTC	CTTAGCTTCT	TCCCTGGGGC	52400
CTGCTGGACC	TTTCCATACT	CCAGAAACTA	AAGGGGGTCC	AGGACCCTGC	
TTCAACCCTA	GGATCCCGCA	TCTTTTTTTT	TTTTTTTTTT	TTTTGGACGC	52500
AGGGTCTTGC	TGTGTCCCTC	AGGCTGGAGT	GCAGTGATTC	ACTGCAGCCT	
CAAACCTCGT	GGCTCAAGTG	ATTCTCTAGC	CTCAGCCTTC	TAAGTAGCTG	52600

FIGURE 11

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GGACTACAGT	CATACACCAA	CATGCCCAGC	TAATTTTCCT	TTTTTTTAAT	
TCTTGTAGAG	ATGTTTGAGA	CGGCTTGGGC	TCTGTTGCCC	AGGCTGTTCT	52700
CAAACTCCTG	AGCTCAAGCG	ATCCTCCCTC	CTCAGCCTCC	TAAAGTGCTG	
GGATTACAGG	CGTGAGCCAC	CGCACCCGGC	TTCCATATCC	TTTCTAATTG	52800
GTCATGGCTT	GGGATAATGG	TGTTGCTTTT	AATTATCATC	ATCCATAAAG	
ACTTTTTTCTT	ACTCAACAGA	TCTGAGCTTG	TATTTGGTGC	CCAGGACATG	52900
TGCTGGGTTC	CCGAAATCCC	AAAGACACAG	ACCCTACCCT	CAGGGATTTC	
TCATTCTAGC	AACATAGACT	GATCAATTAC	TGATTATAAC	GTTAGAAGGC	53000
ATGTCTGAAG	TAGACAGCCA	TCAGGACATG	GTGATTTTCAG	GCTGGGCTTT	
	C				
GAAGAATGAA	TAGGAGTTTT	TCAAGTGTCTG	AAACTGAACC	CTGACCAACC	53100
			T		
TTTGCTTTTG	CAGACACTGG	AAGAATTGTC	TTACCAAGCT	CTTGCCCTGT	
	[exon 11: 53114..				
TTTCTGGAGC	ACAACATGAA	AAGGGATGAA	GATCCTCACA	AGGCTGCCAA	53200
	C				
AGAGATGCCT	TTCCAGGGCT	CTGGAAAATC	AGCATGGTGC	CCAGTGGAGA	
TCAGCAAGAC	AGTCCTCTGG	CCAGAGAGCA	TCAGCGTGGT	GCGATGTGTG	53300
GAGTTGTTTG	AGGCCCCGGT	GGAGTGTGAG	GAGGAGGAGG	AGGTAGAGGA	
AGAAAAGGG	AGCTTCTGTG	CATCGCCTGA	GAGCAGCAGG	GATGACTTCC	53400
AGGAGGGAAG	GGAGGGCATT	GTGGCCCGGC	TAACAGAGAG	CCTGTTCTTG	
	C				
GACCTGCTCG	GAGAGGAGAA	TGGGGGCTTT	TGCCAGCAGG	ACATGGGGGA	53500
	T				
GTCATGCCTT	CTTCCACCTT	CGGGAAGTAC	GAGTGCTCAC	ATGCCCTGGG	
	C T	C			
ATGAGTTCCC	AAGTGCAGGG	CCCAAGGAGG	CACCTCCCTG	GGGCAAGGAG	53600
CAGCCTCTCC	ACCTGGAGCC	AAGTCCTCCT	GCCAGCCCGA	CCCAGAGTCC	
AGACAACCTG	ACTTGACACAG	AGACGCCCCCT	CGTCATCGCA	GGCAACCCTG	53700
CTTACCGCAG	CTTCAGCAAC	TCCCTGAGCC	AGTCACCGTG	TCCCAGAGAG	
	C				
CTGGGTCCAG	ACCCACTGCT	GGCCAGACAC	CTGGAGGAAG	TAGAACCCGA	53800
GATGCCCTGT	GTCCCCCAGC	TCTCTGAGCC	AACCACTGTG	CCCCAACCTG	
AGCCAGAAAC	CTGGGAGCAG	ATCCTCCGCC	GAAATGTCCT	CCAGCATGGG	53900
GCAGCTGCAG	CCCCCGTCTC	GGCCCCCACC	AGTGGCTATC	AGGAGTTTGT	
	T		G	A	
ACATGCGGTG	GAGCAGGGTG	GCACCCAGGC	CAGTGCGGTG	GTGGGCTTGG	54000
GTCCCCCAGG	AGAGGCTGGT	TACAAGGCCT	TCTCAAGCCT	GCTTGCCAGC	
AGTGCTGTGT	CCCCAGAGAA	ATGTGGGTTT	GGGGCTAGCA	GTGGGGAAGA	54100
GGGGTATAAG	CCTTTCCAAG	ACCTCATTCC	TGGCTGCCCT	GGGGACCCTG	
CCCCAGTCCC	TGTCCCCTTG	TTCACCTTTG	GACTGGACAG	GGAGCCACCT	54200
CGCAGTCCGC	AGAGCTCACA	TCTCCCAAGC	AGTCCCCAG	AGCACCTGGG	
			T		
TCTGGAGCCG	GGGGAAAAGG	TAGAGGACAT	GCCAAAGCCC	CCACTTCCCC	54300
AGGAGCAGGC	CACAGACCCC	CTTGTGGACA	GCCTGGGCAG	TGGCATTGTC	
TACTCAGCCC	TTACCTGCCA	CCTGTGCGGC	CACCTGAAAC	AGTGTCTATG	54400
CCAGGAGGAT	GGTGGCCAGA	CCCCTGTCTAT	GGCCAGTCCT	TGCTGTGGCT	
GCTGCTGTGG	AGACAGGTCC	TCGCCCCCTA	CAACCCCCCT	GAGGGCCCCA	54500
	G				
GACCCCTCTC	CAGGTGGGGT	TCCACTGGAG	GCCAGTCTGT	GTCCGGCCTC	
CCTGGCACCC	TCGGGCATCT	CAGAGAAGAG	TAAATCCTCA	TCATCCTTCC	54600
ATCCTGCCCC	TGGCAATGCT	CAGAGCTCAA	GCCAGACCCC	CAAAATCGTG	
	C				

FIGURE 1J

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AACTTTGTCT	CCGTGGGACC	CACATACATG	AGGGTCTCTT	AGGTGCATGT	54700
				C C	
..54692					
CCTCTTGTTG	CTGAGTCTGC	AGATGAGGAC	TAGGGCTTAT	CCATGCCTGG	
				T	
GAAATGCCAC	CTCCTGGAAG	GCAGCCAGGC	TGGCAGATTT	CCAAAAGACT	54800
		G			
TGAAGAACCA	TGGTATGAAG	GTGATTGGCC	CCACTGACGT	TGGCCTAACA	
CTGGGCTGCA	GAGACTGGAC	CCCGCCCAGC	ATTGGGCTGG	GCTCGCCACA	54900
TCCCATGAGA	GTAGAGGGCA	CTGGGTCGCC	GTGCCCCACG	GCAGGCCCT	
GCAGGAAAAC	TGAGGCCCTT	GGGCACCTCG	ACTTGTGAAC	GAGTTGTTGG	55000
CTGCTCCCTC	CACAGCTTCT	GCAGCAGACT	GTCCCTGTTG	TAACTGCCCA	
AGGCATGTTT	TGCCCACCAG	ATCATGGCCC	ACATGGAGGC	CCACCTGCCT	55100
		G			
CTGTCTCACT	GAACTAGAAG	CCGAGCCTAG	AAACTAACAC	AGCCATCAAG	
				A	
GGAATGACTT	GGGCGGCCTT	GGGAAATCGA	TGAGAAATTG	AACTTCAGGG	55200
AGGGTGGTCA	TTGCCTAGAG	GTGCTCATTC	ATTTAACAGA	GCTTCCTTAG	
GTTGATGCTG	GAGGCAGAAT	CCCGGCTGTC	AAGGGGTGTT	CAGTTAAGGG	55300
GAGCAACAGA	GGACATGAAA	AATTGCTGTG	ACTAAAGCAG	GGACAATTTG	
		A			
CTGCCAAACA	CCCATGCCCA	GCTGTATGGC	TGGGGGCTCC	TCGTATGCAT	55400
GGAACCCCCA	GAATAAATAT	GCTCAGCCAC	CCTGTGGGCC	GGGCAATCCA	
		T			
GACAGCAGGC	ATAAGGCACC	AGTTACCCTG	CATGTTGGCC	CAGACCTCAG	55500
GTGCTAGGGA	AGGCGGGAAC	CTTGGGTGTA	GTAATGCTCG	TCTGTGTGTT	
			T		
TTAGTTTCAT	CACCTGTTAT	CTGTGTTTGC	TGAGGAGAGT	GGAACAGAAG	55600
GGGTGGAGTT	TTGTATAAAT	AAAGTTTCTT	TGTCTCTTTA	TTTTTTATGT	
ATTAACCAAA	CATACCTCCA	GACACTGCTG	TGAGTGCTGT	GTCTCTGTTA	55700
ACTCCTGGAA	TTCACCCATC	CAGAGGAACC	AGGATGCAAG	AGGTAAAGAA	
ACTTGCCGTC	TGGGTTTGGG	TTCCCCATAC	AAGGATTCAA	ATAGTTGATT	55800
	A				
TAGGAAGTAA	TCCCGGGAAA	CCCTGCTAAG	GTAGTGGGGA	ACTGAGGCAG	
GGAAGGACAC	AAACCAAGAA	AGTGTTACCT	GAAAGGGGTC	CAGATGCAGA	55900
CCCCAAAAGA	GGGTTCTTGA	ATCTCATGCA	AGAAAGAATT	CAGAGCGAGT	
CCATAGAGTC	AGTGAAAGCA	AGTTAATGAG	GAAAGTAAAG	GAATAAAAGA	56000
ATGGCTACTC	CGTAGACAGA	GCAGCCCTGA	GGGTTGCTGG	CTGCCTATTT	
TTATGGTTAT	TGATTAATTA	TATTCCAAAC	AAGGGGTGGA	TTATTATGCC	56100
TCCCTTTTAG	ACCATATAGG	GTAACCTCCT	GATGTTGCCA	TGGCATTGT	
AAACTGTCAT	GGCGCTGTTG	GGAGTGTAGC	AGTGAGGACA	ACCAGAGGTC	56200
ACTCTTGTTG	CCATCTTGGT	TTTGGTGGGT	TAGAGCCATC	TTCTTTACTG	
CAACCTGTTT	TATCAGCAAG	GTCTTTATGA	CTTGTATCGG	TGACGACCTC	56300
CTGTCTCATT	CTATGACTAA	GAATGCCCTA	ACCTCCCAGG	AATGCAGCCC	
AGTAAGTCTC	AGCCTCATTT	TACCCAGCCC	CTCTTCAAAG	CTCCAGTTTA	56400
AATAAACCTC	TGACAAAAGG	GTGAGTTATT	CAACAGATTA	CCAGCATGAG	
TAACTGATGC	TTACCTGCCG	GGGATCTCTG	GAAGACCATG	CATGGCACAT	56500
GCCCAGTTAT	GCCTGCAAAG	GAGAGGGAGC	TGGGGTATTT	GTCCACCAGC	
TCCCATCTGT	CATTGGCTGA	GAGCTGCTTC	CAGGAGCATT	AATTCTCCAG	56600
CACTTCCAGC	TACTCCAGGA	AAAAAAAAAAT	TCTTCAACTG	AGAGTTGGAG	
GTGTTGAGAG	ACTCTGGCAC	ACCAAGAAGA	CAGGAACAGG	ACACCAACAG	56700
TGGCTGATGA	TACACTGCCA	AGGTCACACA	GCTAGTTAGC	AACAGATCTA	
TAGTGGAATC	CAGACAGTGT	CTCCATCACC	CAGGCTCTCT	GTAGTGATCT	56800
GCGCTTCACA	TCCGAGGCAG	GCAGAGGGAT	GGTGTGGGCC	TTAGATGGGA	

FIGURE 1K

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AGGCTGGGAA	CCTGAAGCTC	CTATGTCTGT	ATCACTTTTG	CTTCTCTGAG	56900
TAGCTGCCCT	GATTTACAC	TTGAGGGGCT	TGGCCATTTT	AGATTCCCTC	
CTGCTCTAGG	AGCCTACATA	CTACACTGG	AATGATGGGG	AGCTCTCTAC	57000
CTCACATGCA	GCCTGATGTT	TGTTAGAAAC	ACCTCCTTGC	GCCAGGCATG	
ATGGCTCATG	GCTGTAATCC	CAGCAATTTG	GGAGGCTGAG	GCGGGTGTAT	57100
CACTTGAGGT	GAGGAGTTCA	AGACCAGCCT	GGCCAATATG	GTGAAACCCT	
ATCTCTACCA	AAAAATAAAA	AATTAGCCGG	GTGTGGTGGT	GGGTGCCTGT	57200
AATCTCAGCT	ACTTGGGAGG	CTGAGTTGGT	AGAATTGCTT	CAACCTGGGA	
CGCGGAGGTT	GCAGTGAGCT	GAGATTGTGC	CATTGCACTC	CAGCTTGGAT	57300
GACAGAGTGA	GACCCTGTCT	CAGGAAAAAA	AAAAAAAAC	AAAAAAAACC	
TTGTTCTAAG	CCAAAAATCAA	TCCCTTTAGC	TGCCCCAAATC	ACACAGTTTA	57400
CAGATGGAGA	AACAGTTTTTA	GAGAGGAAAA	GGGACTTGCC	CAAAGTCACC	
CAGAGAATGG	CAGAGCCTGA	ACTAGCCTTC	TGGACTTCTT	GCCTCCAAAA	57500
GCTCTTTATA	ATAAAATATA	ATTTTAAATA	AAAATAGTTA	TCTGTTTAGG	
GCCAAGCAAT	ATGCTAAGTG	CCGTCCAGCC	ACTGTGTCAT	TTACGTCTCC	57600
AAACAGCTCT	AGTTGGGAGG	CTCAATGATT	ATCCCAATTT	TACAGATAAG	
GAAACAGGTC	CAGAGAGGTT	GAGGATTAGC	CTAGAACCAC	ACAGCTAGGA	57700
AATCCTGGAG	CCAGGATTTG	AACCCGGGTC	TGACCTAAGA	GCTCCCAGCC	
GCCGTGATAT	ATCAGCTTAT	GTCATCCTGA	CACCTACGCA	GATGTCGGCT	57800
CGAATCCACT	TTGCCTGAGC	ATTGTCTCAG	AGAAATCTAA	TTTAAAAATT	
AGGCAGCAAA	TAGAAAATAT	ATTTGACTGC	TAGAGATGCA	ATGGGACTGG	57900
GAGCCCAACA	AAGGATCTTA	GGCAAAAGAA	ATCCAAGTTG	TTGGCCTCAG	
CAACTATTAC	TGAACTGGCT	GGGCTTTGGG	AAGCTACAGA	GGGATGAGAA	58000
GACCTGGTGG	ATCAGGTGGG	CCCAACTCAG	GCTGGCCCCC	ACCCTGCAGG	
AAGTAGGAAA	AGTCCAGGGT	CATAGGCCCA	GTGAGATGCC	GGCTGCGGGA	58100
GTTTCAGCCT	CCGGGGCTGG	ACCAGAGGGC	AGGAGGGGAC	GCCCCCTGGGT	
AGCAGCGCCA	GAGTGGGCTG	AGTGGCCTGG	GCCCCCTGCGG	GGGAGCTTTC	58200
AGAGATGTTG	ATTTGGGGGT	ACTCCCTCAG	CCCTGCCTTT	ACACAGAATT	
TGTGGGGGAT	GAGGGGAGGG	GGAAAGGGGG	GAGGAAGGCA	GTGAGTGCAT	58300
CTGAATTTTT	TTTTTTTTTT	TACAAAAAGT	GGCTTATTGC	ATTTTTCTGA	
TTACTCTATC	AGCACGTGCA	GACCTTTTCC	TATTCAGAGA	AAGCCTGAAG	58400
ATATAAGAG	GAAAGTGAAG	AAAAACCACC	GGAAATCCCA	TCCCCGCCCC	
AGCATCTGGC	ACTGTGTGGG	CGATCACGAA	ATGAGCGCTT	GTTTTTGAAG	58500
GCGTAGTATC	TCCGTGAACA	TCCGGTTGAA	CAACCTTTCT	GACTTTATTT	
TTCCCACGAA	AGTTATTAAT	TAAAAAACAA	AAAGCAAAAC	ACCGAAAAAA	58600
CAAAAAACCC	AGCAAGTGTT	TGAGCTCCCA	CCACGAGGGA	GGCCTGACGT	
CACTGGATCC	TCCCGGCAGC	CGATGAGGCT	GCATGGGACT		58690

FIGURE 1L

POLYMORPHISMS IN THE CODING SEQUENCE OF IL4R α

ATGGGGTGGC	TTTGCTCTGG	GCTCCTGTTC	CCTGTGAGCT	GCCTGGTCCT	
GCTGCAGGTG	GCAAGCTCTG	GGAACATGAA	GGTCTTGCAG	GAGCCCACCT	100
GCGTCTCCGA	CTACATGAGC	ATCTCTACTT	GCGAGTGGAA	GATGAATGGT	
CCCACCAATT	GCAGCACCGA	GCTCCGCCTG	TTGTACCAGC	TGGTTTTTCT	200
GCTCTCCGAA	GCCCACACGT	GTATCCCTGA	GAACAACGGA	GGCGCGGGGT	
		G	T	A	
GCGTGTGCCA	CCTGCTCATG	GATGACGTGG	TCAGTGCGGA	TAACATACA	300
				C	
CTGGACCTGT	GGGCTGGGCA	GCAGCTGCTG	TGGAAGGGCT	CCTTCAAGCC	
CAGCGAGCAT	GTGAAACCCA	GGGCCCCAGG	AAACCTGACA	GTTACACCA	400
ATGTCTCCGA	CACTCTGCTG	CTGACCTGGA	GCAACCCGTA	TCCCCCTGAC	
AATTACCTGT	ATAATCATCT	CACCTATGCA	GTCAACATTT	GGAGTGAAAA	500
CGACCCGGCA	GATTTTCAGAA	TCTATAACGT	GACCTACCTA	GAACCCTCCC	
T					
TCCGCATCGC	AGCCAGCACC	CTGAAGTCTG	GGATTTCCTA	CAGGGCACGG	600
A					
GTGAGGGCCT	GGGCTCAGTG	CTATAACACC	ACCTGGAGTG	AGTGGAGCCC	
CAGCACCAAG	TGGCACAAC	CCTACAGGGA	GCCCTTCGAG	CAGCACCTCC	700
TGCTGGGCGT	CAGCGTTTCC	TGCATTGTCA	TCCTGGCCGT	CTGCCTGTTG	
TGCTATGTCA	GCATCACCAA	GATTAAGAAA	GAATGGTGGG	ATCAGATTCC	800
CAACCCAGCC	CGCAGCCGCC	TCGTGGCTAT	AATAATCCAG	GATGCTCAGG	
GGTCACAGTG	GGAGAAGCGG	TCCCGAGGCC	AGGAACCAGC	CAAGTGCCCA	900
CACTGGAAGA	ATTGTCTTAC	CAAGCTCTTG	CCCTGTTTTT	TGGAGCACAA	
			C		
CATGAAAAGG	GATGAAGATC	CTCACAAGGC	TGCCAAAGAG	ATGCCTTTCC	1000
AGGGCTCTGG	AAAATCAGCA	TGGTGCCAG	TGGAGATCAG	CAAGACAGTC	
CTCTGGCCAG	AGAGCATCAG	CGTGGTGCGA	TGTGTGGAGT	TGTTTGAGGC	1100
CCCGGTGGAG	TGTGAGGAGG	AGGAGGAGGT	AGAGGAAGAA	AAAGGGAGCT	
TCTGTGCATC	GCCTGAGAGC	AGCAGGGATG	ACTTCCAGGA	GGGAAGGGAG	1200
				C	
GGCATTGTGG	CCCGGCTAAC	AGAGAGCCTG	TTCCTGGACC	TGCTCGGAGA	
				T	
GGAGAATGGG	GGCTTTTGCC	AGCAGGACAT	GGGGGAGTCA	TGCCTTCTTC	1300
				C T C	
CACCTTCGGG	AAGTACGAGT	GCTCACATGC	CCTGGGATGA	GTTCCCAAGT	
GCAGGGCCCA	AGGAGGCACC	TCCCTGGGGC	AAGGAGCAGC	CTCTCCACCT	1400
GGAGCCAAGT	CCTCCTGCCA	GCCCGACCCA	GAGTCCAGAC	AACCTGACTT	
GCACAGAGAC	GCCCCTCGTC	ATCGCAGGCA	ACCCTGCTTA	CCGCAGCTTC	1500
AGCAACTCCC	TGAGCCAGTC	ACCGTGTCCC	AGAGAGCTGG	GTCCAGACCC	
	C				
ACTGCTGGCC	AGACACCTGG	AGGAAGTAGA	ACCCGAGATG	CCCTGTGTCC	1600
CCCAGCTCTC	TGAGCCAACC	ACTGTGCCCC	AACCTGAGCC	AGAAACCTGG	
GAGCAGATCC	TCCGCCGAAA	TGTCTCTCCAG	CATGGGGCAG	CTGCAGCCCC	1700
CGTCTCGGCC	CCCACCAGTG	GCTATCAGGA	GTTTGTACAT	GCGGTGGAGC	
T		G	A		
AGGGTGGCAC	CCAGGCCAGT	GCGGTGGTGG	GCTTGGGTCC	CCCAGGAGAG	1800
GCTGGTTACA	AGGCCTTCTC	AAGCCTGCTT	GCCAGCAGTG	CTGTGTCCCC	
AGAGAAATGT	GGGTTTGGGG	CTAGCAGTGG	GGAAGAGGGG	TATAAGCCTT	1900
TCCAAGACCT	CATTCTGGC	TGCCCTGGGG	ACCCTGCCCC	AGTCCCTGTC	
CCCTTGTTCA	CCTTTGGACT	GGACAGGGAG	CCACCTCGCA	GTCCGCAGAG	2000

FIGURE 2A

CTCACATCTC	CCAAGCAGCT	CCCCAGAGCA	CCTGGGTCTG	GAGCCGGGGG	
		T			
AAAAGGTAGA	GGACATGCCA	AAGCCCCCAC	TTCCCCAGGA	GCAGGCCACA	2100
GACCCCTTG	TGGACAGCCT	GGGCAGTGGC	ATTGTCTACT	CAGCCCTTAC	
CTGCCACCTG	TGCGGCCACC	TGAAACAGTG	TCATGGCCAG	GAGGATGGTG	2200
GCCAGACCCC	TGTCATGGCC	AGTCCTTGCT	GTGGCTGCTG	CTGTGGAGAC	
AGGTCCTCGC	CCCCTACAAC	CCCCCTGAGG	GCCCCAGACC	CCTCTCCAGG	2300
	G				
TGGGGTTCCA	CTGGAGGCCA	GTCTGTGTCC	GGCCTCCCTG	GCACCCTCGG	
GCATCTCAGA	GAAGAGTAAA	TCCTCATCAT	CCTTCCATCC	TGCCCCTGGC	2400
				C	
AATGCTCAGA	GCTCAAGCCA	GACCCCCAAA	ATCGTGAAct	TTGTCTCCGT	
GGGACCCACA	TACATGAGGG	TCTCTT			2476

Figure 1. The effect of the concentration of the polymer solution on the apparent activation energy (E_a) of the polymerization of MMA initiated by AIBN at 60°C. The reaction was carried out in benzene at 60°C for 1 h. The concentrations of monomer and initiator were 1.0 mol/L and 0.01 mol/L, respectively. The polymerization was terminated by adding methanol. The apparent activation energy (E_a) was determined from the plot of $\ln k_p/k_t^{1/2}$ versus $1/T$. The values of $k_p/k_t^{1/2}$ were calculated from the plots of $\ln[M]_t/[M]_0$ versus time. The symbols represent different concentrations of polymer solutions: (○) 0.01 g/dL; (□) 0.02 g/dL; (△) 0.05 g/dL; (◇) 0.1 g/dL; (▽) 0.2 g/dL; (×) 0.5 g/dL; (●) 1.0 g/dL; (■) 2.0 g/dL; (▲) 5.0 g/dL; (◆) 10.0 g/dL; (◇) 20.0 g/dL; (▽) 50.0 g/dL; (×) 100.0 g/dL.

ISOFORMS OF THE IL4R α PROTEIN

MGWLCSGLLF	PVSCLVLLQV	ASSGNMKVLQ	EPTCVSDYMS	ISTCEWKMNQ	100
PTNCSTELRL	LYQLVFLLE	AHTCIPENNG	GAGCVCHLLM	DDVVSADNYT	
		V	T		
LDLWAGQQLL	WKGSFKPSEH	VKPRAPGNLT	VHTNVSDTLL	LTWSNPYPPD	200
NYLYNHLTYA	VNIWSENDPA	DFRIYNVTYL	EPSLRIAAST	LKSGISYRAR	
			H		
VRAWAQCYNT	TWSEWSPSTK	WHNSYREPF	QHLLLGVSVS	CIVILAVCLL	300
CYVSITKIKK	EWWDQIPNPA	RSRLVAIIIQ	DAQSQWEKR	SRQEPKACP	
HWKNCLTKLL	PCFLEHNMKR	DEDPHKAKE	MPFQSGSKSA	WCPVEISKTV	400
LWPESISVVR	CVELFEAPVE	CEEEEEVEEE	KGSFCASPES	SRDDFQEGRE	
			A		
GIVARLTESL	FLDLLGEENG	GFCQQDMGES	CLLPPSGSTS	AHMPWDEFPS	500
		R			
AGPKEAPPWG	KEQPLHLEPS	PPASPTQSPD	NLTCTETPLV	IAGNPAYRSF	600
SNSLSQSPCP	RELGPDPLLA	RHLEEVEPEM	PCVPQLSEPT	TVPQPEPETW	
	P				
EQILRRNVLQ	HGAAAAPVSA	PTSGYQEFVH	AVEQGGTQAS	AVVGLGPPGE	700
		R I			
AGYKAFSSLL	ASSAVSPEKC	GFGASSGEEG	YKPFQDLIPG	CPGDPAPVPV	800
PLFTFGLDRE	PPRSPQSSHL	PSSSPEHLGL	EPGEKVEDMP	KPPLPQEAT	
		S			
DPLVDSLGS	IVYSALTCHL	CGHLKQCHGQ	EDGGQTPVMA	SPCCGCCCGD	825
RSSPPTTPLR	APDPSPGGVP	LEASLCPASL	APSGISEKSK	SSSSFHPAPG	
	A				
NAQSSSQTPK	IVNFVSVGPT	YMRVS			

FIGURE 3